



FIG. 1

P4 P1 1

1 MWSWKCLLFWAVLVLTATLCTARPSPITLPEQAOPWGAPEVEVESFLVHPGDLLOLRCLRDDVQOSINWLRDGVOLAE 75  
2 MWSWKCLLFWAVLVLTATLCTARPSPITLPEQAOPWGAPEVEVESFLVHPGDLLOLRCLRDDVQOSINWLRDGVOLAE 75  
3 MWSWKCLLFWAVLVLTATLCTARPSPITLPEQAOPWGAPEVEVESFLVHPGDLLOLRCLRDDVQOSINWLRDGVOLAE 30  
4 MWSWKCLLFWAVLVLTATLCTARPSPITLPEQAOPWGAPEVEVESFLVHPGDLLOLRCLRDDVQOSINWLRDGVOLAE 30  
5 MWSWKCLLFWAVLVLTATLCTARPSPITLPEQAOPWGAPEVEVESFLVHPGDLLOLRCLRDDVQOSINWLRDGVOLAE 30  
6 MWSWKCLLFWAVLVLTATLCTARPSPITLPEQAOPWGAPEVEVESFLVHPGDLLOLRCLRDDVQOSINWLRDGVOLAE 30

ARR

SNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDITYFSVNVSDALPSSSEDDDDDDSSSEKETDNTKPNP 148  
SNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDITYFSVNVSDALPSSSEDDDDDDSSSEKETDNTKPNP 150  
DALPSSSEDDDDDDSSSEKETDNTKPNP 59  
DALPSSSEDDDDDDSSSEKETDNTKPNP 61  
DALPSSSEDDDDDDSSSEKETDNTKPNP 59  
DALPSSSEDDDDDDSSSEKETDNTKPNP 61

2

VAPYWTSPKMEKKLHAPPAKTVKFKCPSSTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVP SDK 223  
VAPYWTSPKMEKKLHAPPAKTVKFKCPSSTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVP SDK 225  
VAPYWTSPKMEKKLHAPPAKTVKFKCPSSTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVP SDK 134  
VAPYWTSPKMEKKLHAPPAKTVKFKCPSSTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVP SDK 136  
VAPYWTSPKMEKKLHAPPAKTVKFKCPSSTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVP SDK 134  
VAPYWTSPKMEKKLHAPPAKTVKFKCPSSTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVP SDK 136

3

GNYTCIVENEYGSINHTYQOLDVVERSHPRPILQAGLPANKTVALGNSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 298  
GNYTCIVENEYGSINHTYQOLDVVERSHPRPILQAGLPANKTVALGNSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 300  
GNYTCIVENEYGSINHTYQOLDVVERSHPRPILQAGLPANKTVALGNSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 209  
GNYTCIVENEYGSINHTYQOLDVVERSHPRPILQAGLPANKTVALGNSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 211  
GNYTCIVENEYGSINHTYQOLDVVERSHPRPILQAGLPANKTVALGNSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 209  
GNYTCIVENEYGSINHTYQOLDVVERSHPRPILQAGLPANKTVALGNSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI 211

P2

GPDNLPHYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCIAGNSIGLSHHSAWLTVLEALEERPAMVTSPLYL 373  
GPDNLPHYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCIAGNSIGLSHHSAWLTVLEALEERPAMVTSPLYL 375  
GPDNLPHYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCIAGNSIGLSHHSAWLTVLEALEERPAMVTSPLYL 284  
GPDNLPHYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCIAGNSIGLSHHSAWLTVLEALEERPAMVTSPLYL 286  
GPDNLPHYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCIAGNSIGLSHHSAWLTVLEALEERPAMVTSPLYL 284  
GPDNLPHYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCIAGNSIGLSHHSAWLTVLEALEERPAMVTSPLYL 286

TM

EIIITYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSONMAVHKLAKSIPLRRQVTVSADSSASMNSGVILVRPSRLS 448  
EIIITYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSONMAVHKLAKSIPLRRQVTVSADSSASMNSGVILVRPSRLS 450  
EIIITYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSONMAVHKLAKSIPLRRQVTVSADSSASMNSGVILVRPSRLS 359  
EIIITYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSONMAVHKLAKSIPLRRQVTVSADSSASMNSGVILVRPSRLS 361  
EIIITYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSONMAVHKLAKSIPLRRQVTVSADSSASMNSGVILVRPSRLS 300  
EIIITYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSONMAVHKLAKSIPLRRQVTVSADSSASMNSGVILVRPSRLS 302

TK

SSGTPMLAGVSEYELPEDPRWELPRDLVLGKPLGEGCFQGVVLAFAIGLDKDKPNRVTKVAVKMLKSDATEKDL 523  
SSGTPMLAGVSEYELPEDPRWELPRDLVLGKPLGEGCFQGVVLAFAIGLDKDKPNRVTKVAVKMLKSDATEKDL 525  
SSGTPMLAGVSEYELPEDPRWELPRDLVLGKPLGEGCFQGVVLAFAIGLDKDKPNRVTKVAVKMLKSDATEKDL 434  
SSGTPMLAGVSEYELPEDPRWELPRDLVLGKPLGEGCFQGVVLAFAIGLDKDKPNRVTKVAVKMLKSDATEKDL 436

SDLISEMEMMKMIGKHKNIINLLGACTQDGPLYVIVEYASKGNLREYLQARRPPGLECYCNP SHNPPEQLSSKDL 598  
SDLISEMEMMKMIGKHKNIINLLGACTQDGPLYVIVEYASKGNLREYLQARRPPGLECYCNP SHNPPEQLSSKDL 600  
SDLISEMEMMKMIGKHKNIINLLGACTQDGPLYVIVEYASKGNLREYLQARRPPGLECYCNP SHNPPEQLSSKDL 509  
SDLISEMEMMKMIGKHKNIINLLGACTQDGPLYVIVEYASKGNLREYLQARRPPGLECYCNP SHNPPEQLSSKDL 511

VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFLGARDIHHIDYKKTNGRLPVKMAPEALFDR 673  
VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFLGARDIHHIDYKKTNGRLPVKMAPEALFDR 675  
VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFLGARDIHHIDYKKTNGRLPVKMAPEALFDR 584  
VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFLGARDIHHIDYKKTNGRLPVKMAPEALFDR 586

TK

IYTHQSDVWSFGVLLWEIFTLGGSYPYGVFVEELFKLLKEGHRMDKPSNCTNELYMMRDCWHAVPSORPTFKQL 748  
IYTHQSDVWSFGVLLWEIFTLGGSYPYGVFVEELFKLLKEGHRMDKPSNCTNELYMMRDCWHAVPSORPTFKQL 750  
IYTHQSDVWSFGVLLWEIFTLGGSYPYGVFVEELFKLLKEGHRMDKPSNCTNELYMMRDCWHAVPSORPTFKQL 659  
IYTHQSDVWSFGVLLWEIFTLGGSYPYGVFVEELFKLLKEGHRMDKPSNCTNELYMMRDCWHAVPSORPTFKQL 661

VEDLDRIVALTSNQEYLDLSMPLDQYSPSPDTRSSSTCSSGSDSVFSHEPLPEEPCLPRHPAQLANGGLKRR\* 820  
VEDLDRIVALTSNQEYLDLSMPLDQYSPSPDTRSSSTCSSGSDSVFSHEPLPEEPCLPRHPAQLANGGLKRR\* 822  
VEDLDRIVALTSNQEYLDLSMPLDQYSPSPDTRSSSTCSSGSDSVFSHEPLPEEPCLPRHPAQLANGGLKRR\* 731  
VEDLDRIVALTSNQEYLDLSMPLDQYSPSPDTRSSSTCSSGSDSVFSHEPLPEEPCLPRHPAQLANGGLKRR\* 733

FIG. 2